M. A. R. 57 (Rule 116)
Measurement Book

No. E 535090

Serial No. ..1st & final Bill

Name of work ...package-8 including from 3 works of Rs. 200.00 lakhs

Name of Contractor of nature of Agency.....Sri. B. B. Umesh, H.3.85(1), Bettahalasur B'lore

Date of commencement of work.....Date of Receiving: 27/07/2020

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Est cost Rs = 200.00 lakhs						
	Head of A/C = P-311						
	Work code No = 011-18-000 37, 011-18-000 38, 011-18-000 40,						
	Agreement No = EE/BTP/BBMP/E-PM/17(2-82485)/WO/141/2021 dt 19.05.20						
Item 17	Earthwork in surface excavation in ordinary soil for leveling and lowering the ground manually (other than for location of building, Culverts, Road drains and trenches of Pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift up to 1.5m						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	excavated surface levelled and neatly dressed, disposed earth to be levelled after breaking of clods and neatly dressed as per specifications,						
	Quantity vide C MB P.NO = 1602.60 cum						
	@ 174.78/cum = 280006.00						
item 4)	Removing and Refixing stone slabs of drains and Pointing in m (1:3)						
	Quantity vide C MB P.NO = 624.5 Sqm						
	@ 84.58/ Sqm = 52821.00						

Serial No. .....
Name of work .....
Name of Contractor of nature of Agenc
Date of commencement of work.....

Date	Full description, etc, of work
1	2
item 5)	Providing granite s and fixed in cem complete, 2.5cm th Quantity v
item 6)	Earthwork, excavati an average, horizon lift upto 0.5m d

M. A. R. 57 (Rule 116) **No. E** 535091

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
item 5)	providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc-- complete, 2.5cm thick.						
	Quantity vide Emb P.No = 165.90 sqm						
	@ 698.90/sqm				=		115486.00
item 8)	Earthwork, excavation by manual means in ordinary soil loading an average horizontal throw up to 2 metres. and an average lift up to 0.5m. excavated surface leveled and sides neatly						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	dressed, the disposed earth to be levelled neatly after breaking of clods completely per specification. Quantity vide ℄ MB P.No = 98.95 cum @ 51.19/cum					= 5065.00	
Item 9)	lead for disposal of earth shall be payable at carriage rate (Lead 5 Lift 1) by mechanical means including loading and unloading. Quantity vide ℄ MB P.No = 1707.57 cum @ 116.41/cum					= 198739.80	

M. A. R. 57 (Rule 116) **No. E** 535092

Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Item 12) Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the material with water at one in mechanical mix plant carriage of mixed material by tipper to site, laying in uniformly layer with paver in sub-base/base course on well prepared surface and compacting with vibrator roller to achive the desired density, complete as per specification.						
	Quantity vide E MB P.No : 1755.15 cum @ ₹ 1856.37/cum						= 3258102.00
	Quantity above 125%		567.85 @ ₹ 210.14				= 119312.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
item 13)	Scarifying bituminous course 50mm to 75mm thick along with premix carpet/surface dressing by road roller and hacks with scarifier without disturbing the base and stacking the debris cost of all labour charges hire of machineries complete as per specification.						
	Quantity here @ MB P.NO = 3265.63 sqm						
	@ 63.431 sqm)					=	207329.00
	Quantity above 125% = 6401.00 sqm						
	@ 100.16 sqm)					=	641174.00

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Measurement Book

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Number	Dimensions		Depth	Contents	Reference to last Measurement
			Length	Breadth			
1	2	3	4	5	6	7	8
m 16)	providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base/binding course including of loading of aggregates with F.E. loaders, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver.						
	Quantity vide E MB P.No = 483.49 cum						
			@ 6019.64		=		2910436.00

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
Item 17)	Cleaning the existing black topped surface with brooms. Soft brushes and fibre dusting with old gunny bags and/or compressed air to received bituminous treatment including cost of all materials, labour, hire of machineries, complete as per specifications.						
	Quantity vide EMB pg no				= 1936.04 sqm		
	@ 3.3 Kg/sqm					=	11369.00
Item 18)	providing and laying tack coat using SD/100 grade bitumen (VG10) on prepared black topped surface at 9.5 kg per 10 sqm, heating bitumen in boiler fitted with spray						

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Measurement Book

No. E 535094

Serial No. .....

Name of work ..... From ..... To .....

Name of Contractor of nature of Agency.....

Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	Set Executing Cleaning of road surface including cost of all materials, labour, hire of machinery complete as per specifications.						
	Quantity vide E MB P.No 92H9S.96 sqm @ 10.00/sqm					=	92SH10.00
item 19	providing and laying bituminous concrete using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled vibratory, and tandem rollers to achive the required compaction as per complete in all respects as per specifications.						
	Quantity wise @ MB P.NO = 899.84 cum @ 9461.82/cum = 8514424.00						
item 80)	Road marking with HOT, Applied thermoplastic compound with Reflectrising Glass Beads on Bituminous surface providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms per sqm area. thickness of 2.5 mm						

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Measurement Book

Serial No. .....
Name of work ..... From ..... To .....
Name of Contractor of nature of Agency.....
Date of commencement of work.....

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	is exclusive of surface applied grays beads as per the finished surface to be level, uniform and free from streaks and holes complete as per specifications.						IRC:35
	Quantity vide EMB P.No = 3910.98 sqm						
	@ 569.80/sqm =						2223680.00
item 61)	providing and applying primer coat with ss bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of Road						

MEASUREMENT BOOK

Date	Full description, etc, of work	Dimensions				Contents	Reference to last Measurement
		Number	Length	Breadth	Depth		
1	2	3	4	5	6	7	8
	surface and praying primer at the rate of 0.60 kgs/sqm using mechanical means complete as per specifications.						
	Quantity vide ENB P.NO : 10100.02 sqm						
	@ 30.05/sqm					=	303506.00
							18717791.00
	Total Amount					=	19180615.00
	GST @18%					=	2,03,58,406.00
	Grand Total						
	Certificate:-						27/07/20
	1) the above work has been completed satisfactorily						
	2) NO materials issued from departmentally						
					27/07/2020		

mehul 27/7/20

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